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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Gonsalves, Kenneth E.  
Serial No. : 09/992,560  
For : **High Resolution Resists for Next  
Generation Lithographies**  
Filed : November 11, 2001  
Examiner : Lee, Sin J.  
Group Art Unit : 1752

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AFFIDAVIT OF KENNETH E. GONSALVES PURSUANT TO 37 C.F.R. § 1.132**

Sir,:

I, Kenneth E. Gonsalves, do hereby declare the following:

1. I am the sole inventor of the subject matter disclosed and claimed in the above-referenced patent application. I conceived of the invention that is recited in the pending claims in conjunction with my research responsibilities as a faculty member in the Department of Chemistry at the University of North Carolina at Charlotte and the Institute of Materials Science and Department of Chemistry at the University of Connecticut. The University of North Carolina at Charlotte and the University of Connecticut are assignees of the present invention.

2. I have reviewed the Office Action mailed March 24, 2005 in the above-referenced patent application, including the Gonsalves et al. ("High Resolution Resists for Next Generation Lithography: The Nanocomposite Approach", Materials Research Symposium Proceedings (2001), vol. 636, pg. D6.5.1-D6.5.12) reference, which was cited against claims 22-49, 50, 51-55, 57-59, and 62.

I further declare that all statements made herein are of my own knowledge, are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or any patent issuing thereon.

Kenneth E. Gonsalves  
Kenneth E. Gonsalves

On this 25 day of May, 2005, before me, a notary public, came Kenneth E. Gonsalves, to me known and known to be the individual described in and who executed the foregoing affidavit, and he duly acknowledged the same to be his free act and deed.

Notary Public

My Commission expires: October 15, 2005

(SEAL)